

Nikita Jayakar

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Versatile professional with extensive experience in Cloud, Full-stack development, and AI (Artificial Intelligence). Adept at cross-team collaboration to deliver high-quality products under critical deadlines.

EDUCATION

New York University

Brooklyn, NY

Master of Science in Computer Science, GPA: 3.62/4

University of Mumbai

Mumbai, India

Bachelor of Engineering in Computer Engineering, GPA: 8.83/10, top 2% of the class

WORK EXPERIENCE

Software Engineer - Cloud Infrastructure and Reliability

Jan 2023 – Present

New York Life Insurance

New York, NY

- Creating **guardrails** to deploy **Amazon Q** and **CodeWhisperer LLM agents** across company-wide apps
- Built an **automated system** using Python, Go, and Terraform for tagging all AWS resources across company-wide AWS accounts that eliminated the creation of 1 million tickets, **saving 3 months of work** for all developers
- Supported and guided application teams with infrastructural design across **1000s of databases, data streams, virtual machines, and serverless functions**, resulting in the reduction of cloud-related issues by **30%**
- Fixed **500+** security vulnerabilities for **120** applications; Participated in monthly platform releases & code reviews
- **Mentored 3 summer interns** to develop a tool that automates creation of networking resources in AWS accounts

Software Developer - Full Stack

June 2021 – Dec 2022

New York Life Insurance

Jersey City, NJ

- Improved **usability** of **Annuities website** by implementing a responsive & user-friendly design using Angular.js
- Developed a Python-based tool for **automated documentation** of XML requests/responses from website transactions; Followed Agile methodology to maintain the software framework of Annuities products

Graduate Research Assistant

December 2020 – May 2021

New York University

Brooklyn, NY

- Built a text **data pipeline** of NYU Intro CS course content and reviews & performed **sentiment analysis** on each module of the course with Python; Suggested a revised lecture flow to reduce student dropout rate by **10%**
- Generated **word embeddings** of the above data using pre-trained **LLMs** with PyTorch, clustered embeddings using k-means via sklearn, performed **topic modeling** of clusters, and visualized the network graph with d3.js

Software Engineer Intern - Machine Learning

June 2020 – August 2020

New York Life Insurance

Jersey City, NJ

- Trained deep neural nets and linearSVC for classifying an internal dataset of 1 million incident tickets with Keras and Tensorflow at an accuracy of 70.6%; **Won the Annual Intern Project Competition** among 20 interns

PROJECTS

InterviewBestie - LLM Agent to prepare for SDE interviews

Dec 2024 - Present

- Evaluated LLMs as interviewers; developing an **LLM agent** with Langchain to conduct coding interviews

Satellite Image Semantic Segmentation ([link](#))

Sept 2020 - Dec 2020

- Trained a **deep learning model** for image segmentation based on the U-net architecture with Keras, TensorFlow
- Achieved **85% accuracy** in precisely segmenting test satellite images into roads, buildings, and green-cover

GutenTag - The News article tagger ([link](#))

March 2020 - May 2020

- Leveraged LDA algorithm for unsupervised auto-categorization of articles based on keywords with PySpark

TECHNICAL SKILLS

- **Proficient:** Python, MySQL, React.js, HTML/CSS, Git, AWS, Terraform, C/C++, Angular.js, PySpark, Tensorflow/Keras, NumPy, Pandas, Golang, Flask
- **Familiar:** JavaScript, R, OpenCV, Java, Tableau, Docker, PyTorch, sklearn, C#, Azure, LangChain

PUBLICATIONS, ACHIEVEMENTS, AND LEADERSHIP

- N. Jayakar and 5 others, "[Web Application for Screening Resume](#)," 2019 International Conference on Nascent Technologies in Engineering(ICNTE), Navi Mumbai, India, 2019, pp. 1-7, doi:10.1109/ICNTE44896.2019.8945869
- **Winner**, Smart India Hackathon 2019 - software edition (team event), March 2019 amongst 111 teams ([link](#))
- Technology **Summer Internship Mentor** at New York Life Insurance in 2024 for **50+ interns**
- Earned **AWS Solutions Architect - Associate Certification**, enhancing cloud architecture expertise